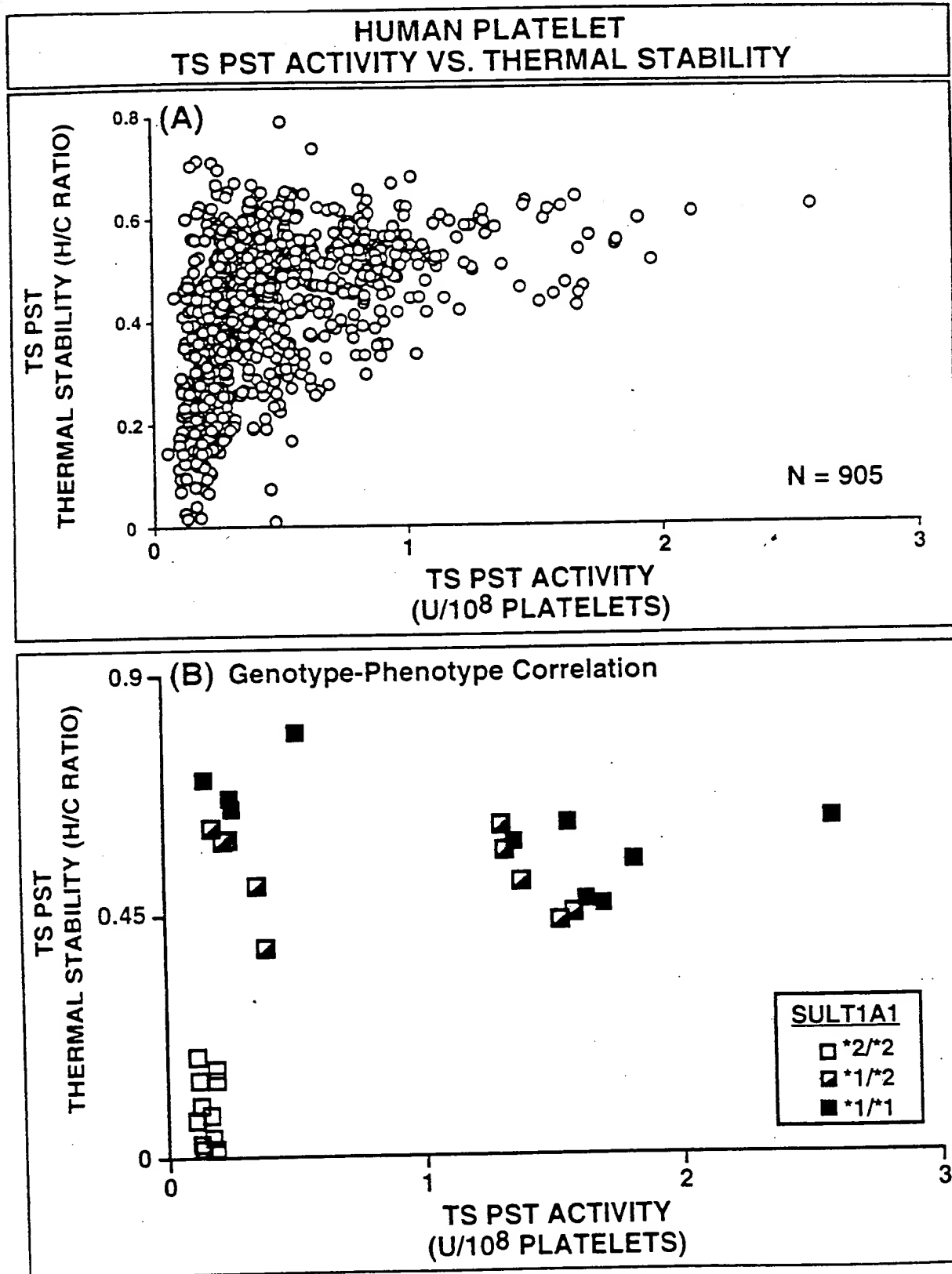


FIG. 1



FOOTNOTES

HUMAN SULT1A (PST) GENE STRUCTURES

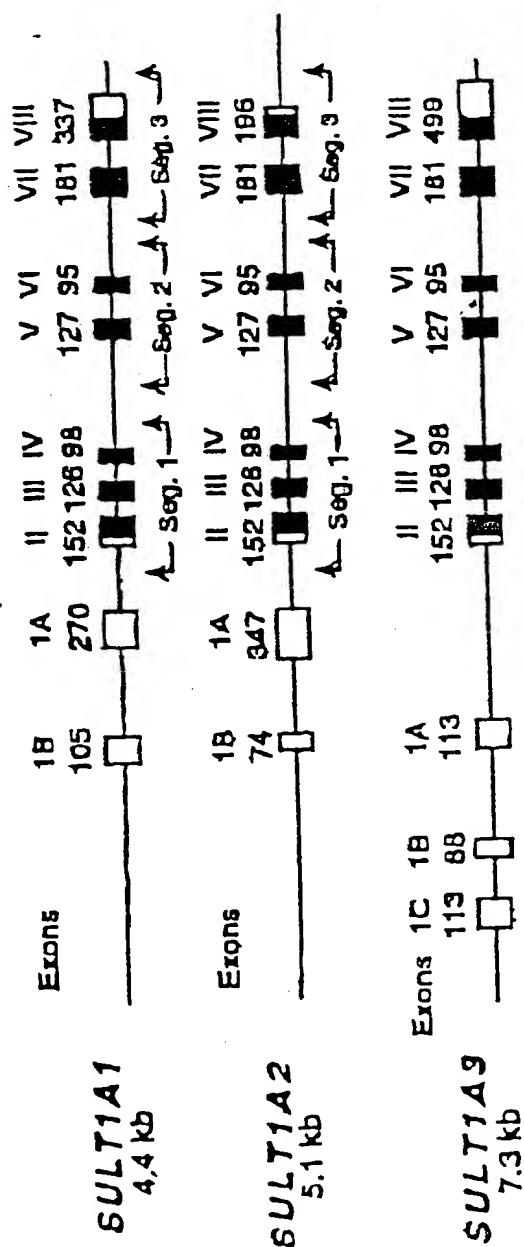


FIG. 3

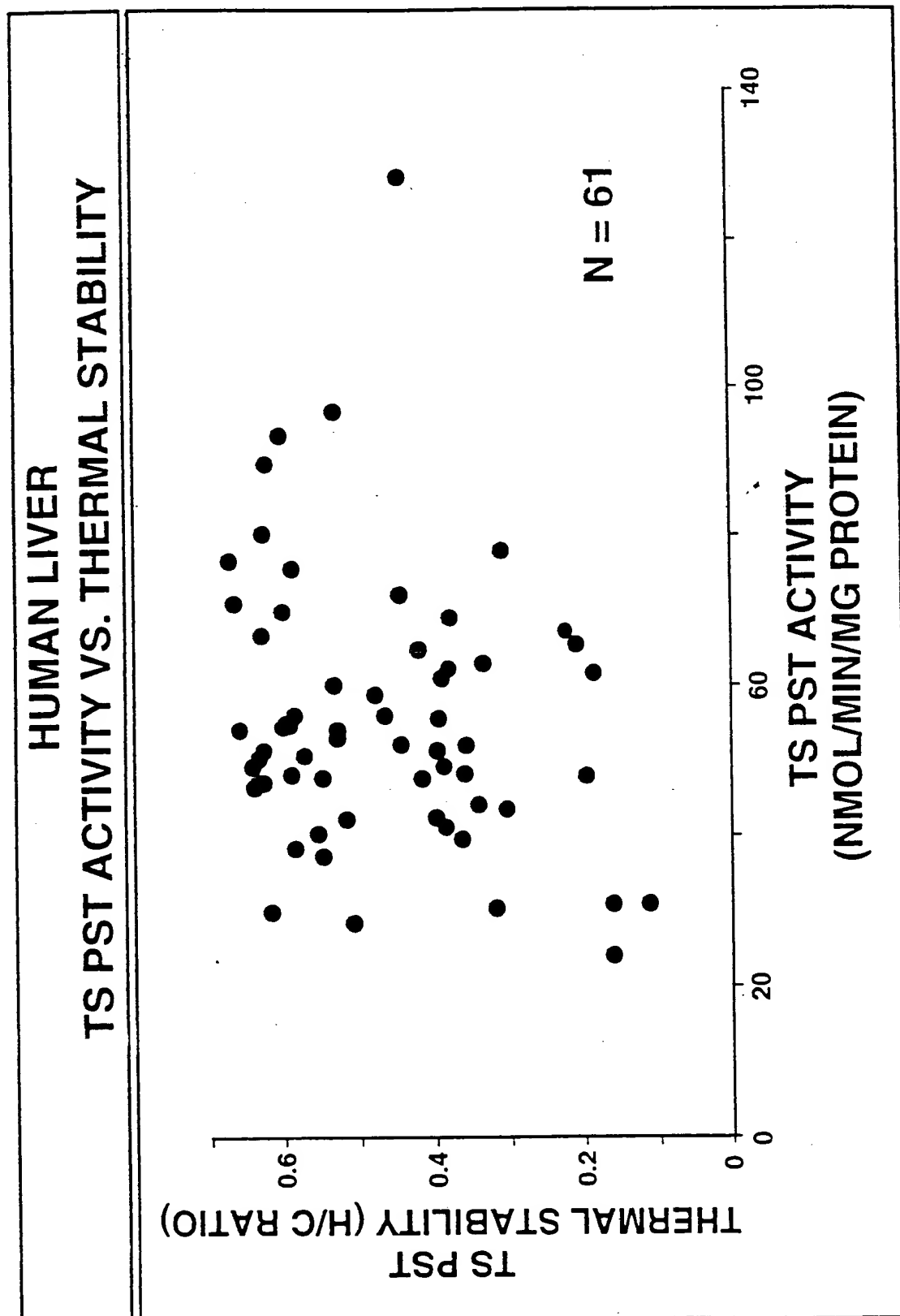
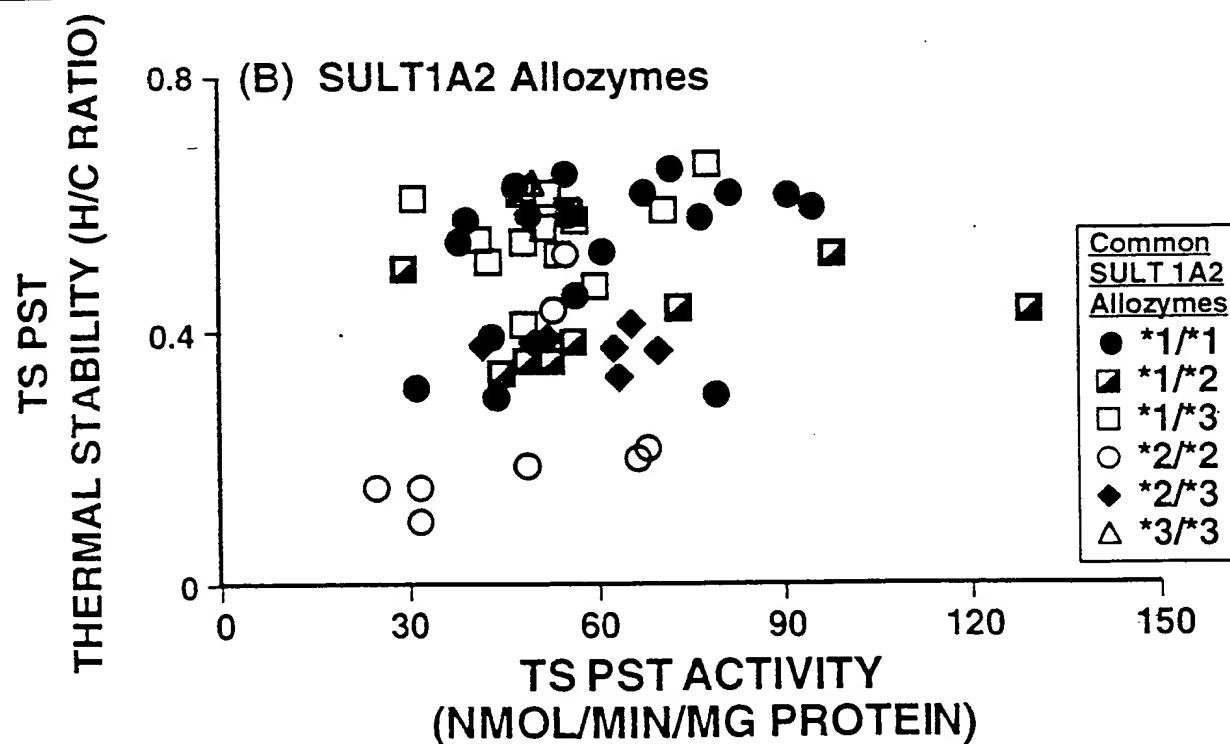
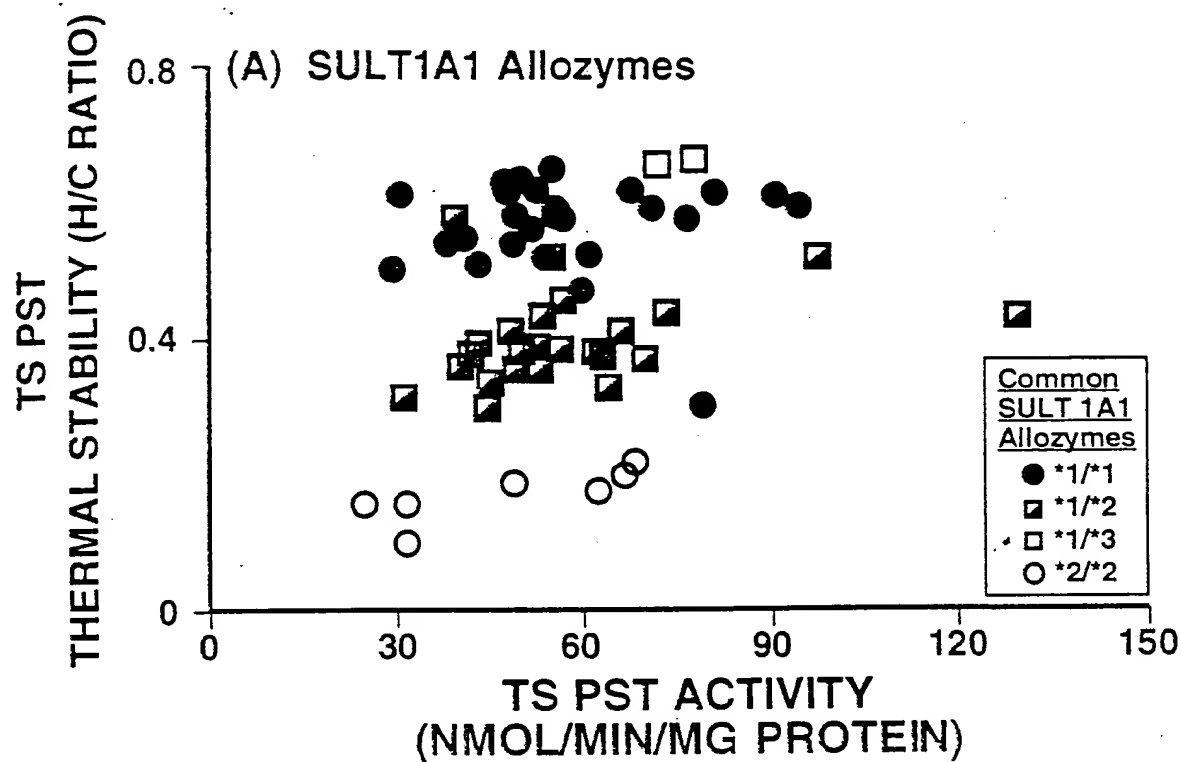


FIG. 4

HUMAN LIVER TS PST GENOTYPE-PHENOTYPE CORRELATION



HUMAN *SULT1A2* GENE SEQUENCE

[illegible]

Figure 2. *SV40* gene sequence. Exon sequence is shown in uppercase, while intron, 5'-flanking region and 3'-flanking region sequence is in lowercase. Amino acid sequence encoded by the gene is listed in single-letter code beneath the nucleotide sequence.

FIG. 7

1 acctctgcct cctgggttcca agcaatcctc cttcctcacc ctccagagta gctgggatta
 61 caccgcgctg ccaccgcgcc tggcctaatt tttgtatttt tagtagagat ggggggtttcc
 121 aaccatgttg gccaggctgg tctccaaact cctgacctca ggtgatcctg ccacacctaag
 181 cctcccaaaa tgctgggtatt acaggcatga gccaccgtgc ccggcctaaa taattaataa
 241 aataatggac gatgggtgccc ttctactgag ctcccggtaa ttgtgagtga gtagaggact
 301 tgccttgggg acattcagtg acctgctggg tgttgctgag ctgtgaggaa gttcaggctc
 361 ggctgcagtg gtgaggctgt gactcaatca atcactgctg atgctcccag gacctgcacc
 421 agcttagtcc taggggcaag gattttaact gtccacctca gtttcttcat ttgtaagatg
 481 caaataacag tcaccctgc ctcattgggag ggagctgtgt aatgcccga acagtgcctg
 541 ctgcatagag ggggtgctgc cagctgcctc tccctccttg tctcttacct gcctgctgcc
 601 tgggtcacga tgaagaacgg ccttctgtgt gccccaccc tggctgcctg ctaaggggcc
 661 atgtgatctg cctggcagag gagtttcttc aggaagaacc agggcagctt ctgcccctag
 721 agggccaatg ccttctgtga gtgcagctcc ctggccccag cctgggtccac ctctgggaag
 781 aggggtgcca gttgtgcaat ccaggcccag gcagctgagc cctcatctca gcatgcaggg
 841 cggatactgg agggggcttg tggcatctga ctctgtatct cctacctgcc cctctccttg
 901 gtgactgtga gaagtcactg ctttggggag acctgatctg gctgtgccag atggacactg
 961 agaaagaagt agaagactca gaattagaag aggtgagtgg gcttgggtgg cgggctccct
 1021 accccactcc ctgcccgtgg ctgcccgtga ccacactgct tgccctctga ggcacactgg
 1081 acagacctgc tggagacctg atcctcagtg tcttaccct ctcctacctc ttttctgtgc
 1141 cacctgctgt ggggtccagca ggtttttact tgagtacaat aaaaagctg agtcaagggt
 1201 gccttatggg ggatgctgag gggaggggag gagctagtag cccaaggctc tgccagtcac
 1261 ggggcttcc caggggcaca gaggaggcag gaggggcccc tggccctagc acgtgaacag
 1321 cttctactct gcctggaaac cccatgcctc agctttcccc tacttgctc tgagctcatg
 1381 caattcttgg aagcctggga gacttacctt gaaattgaat gcaaatagga caaagaccaa
 1441 ggaggatggg gggatgccct ccttccacgg ggccctgtgg cttccaagtc ttaatctcct
 1501 ctagtctctt gtctacggag cctccttcaa acccaggga agaaaagcac ctgccagggt
 1561 tgtttttctt ctaggatctt ctattgatgc tctgtgaggt ccccaggag ccatgaagct
 1621 agggctggct cctagggcaa tgggactaca gtgtcctgt ccttcttctt ctttctgtt
 1681 ctttcttctt tctttttttt tttttttttt tttttttgag acagagtctc actctgttgc
 1741 ccaggctgga gtgcagtggt gtgatcttgg ctcactgaaa cctccgcctc ctgggttcaa
 1801 gtgattctct tgccctcagc tcttgagtag ctaggattac aggtgcccgc catcatgccc
 1861 agctaatttt tgtattttta gtagagacag ggtttcacca tgttgccag cttgggtctg
 1921 aactcctgac ctcagggtgat cctgctgcat cgacctccca agtactggg attacaggcg
 1981 tgagccacca cgtcagcct ctttcttgtt ctatatgtcc atgctctgct ccacttctgc
 2041 cccttcactc tgccccacac atcactccag actggccttg tggctcagagc ctggaatgcc
 2101 tgggctgctg ggggctgtg gactgcactg ggccagaacc cctgccgcct tcaagactgg
 2161 cctgtagcca gcaggtaggt gacttttccc aggcgggctt atcccacct tccccccac
 2221 tcaactcact cccttgctg ggtcaattag agaaagcttg tggccaggc atgggtggctc
 2281 atgcctgtaa tctcagcact ttgggaggcc gaggcgggag gatcatctga gctcaggagt
 2341 ttgagaccag cctggccaac atggcaaac cccgtctcta ctaaaaatac aaaaattaac
 2401 cggatgtggt ggtgtgcacc tgtaatccca gctactcggg aggtgaggc agaagaatcg
 2461 cttgaaccca ggagggggag gttacagtga gcggagatcg tgctactgca ttgcagcctg
 2521 ggcgagagag cgagtcctca tctcacataa aaaaaagaaa aagaagaaa gcaagcttgt
 2581 ctgttggcct gccctgcagg gtggagttca gaggggaagg caggagccta gtgacagctc
 2641 aaaaaaaaaa aaacccaaat accaatgttg gccccttttg ctttcttctt atgtgttttc
 2701 tataactaa actcacatat tgggtttgca gatcactcca agcttggctg gagctgtggg
 2761 ggtaaggagg gtaatagaga agcttcccca cctcaaccc cacccttcc ttctggagt
 2821 tcccagccct gactttagat cctccgaca ctggaccttc aaaacctca gggcagagag
 2881 cagccctaca ctccctacac cacaccata ctgagccct gcaggcaagg agagaacagg
 2941 tcaqgttccc qaaqactca gtgagtga cgttggaatg gccagggga ccttcaccct
 3001 gctcagcttg tggctccaac attctagaag ccgaggcctc tgccatccct gccctttccc
 3061 atggatattc catttcaatt agacaaccca gcctggccgg aatcccctg cgttccctct
 3121 tttcctttgt gtatttttga gacagggtgt tgctccgtca cccaggctgg agtgtagtgg
 3181 gatcctggcc cactgcagcc tcaaatcctt aggtgaggc aatcctgcc cctcagcctc

FIG. 7 CONT.

3241 ctgagtagct ggggttacia gagcaagcca ccacaccag ctaattttga aaaatatttt
 3301 ttgtagagga gaggtcttgc tttgttgtcc aggttgggtc caaactccag gggtcaaggg
 3361 atcctttccc gttggcctcc caaggtctct ggattacagg cgggagtcac cctgcctggg
 3421 cccctccttt tgatgagtc tcaagttttca tccccgcacg aggtctctagc cctgggtacc
 3481 agcttagttg ctcaatgggc tgtgtttgtt ctggagccca gatggactgt ggccaggcaa
 3541 gtggatcaca gacctggccg gcctgggagg ttccacatg tgaggggcat gaggggggct
 3601 caaggagggg agcatcgccg agaggagcgc actgggtgga ggctgggggt cccagcagga
 3661 aatggtgaga caaaggcgcc tggctggcag ggagacagca caggcaggcc cttagagcttc
 3721 ctacagcacag ctggactctc ctggagacct tcacacaccc tgatatctgg gccccgcgct
 3781 acgaggggtgc tttcactggg ctgcactatg cccagggccc tgggattttg aacagctctg
 3841 caggtgactg aaaggtgccc ccaggctggg gaacgacctg gtttcagccc cagccccgcc
 3901 actgactgac tttgtgagtg cgggcaagtc actcagctc cctaggcctc agtgacttcc
 3961 ctgaaagcaa aaactctgca aaggggcagc tgggtgctgg ctacacactg taatccagc
 4021 actttgggag gctgaggtag acaaatcact tgaggccagg agttctagac cagcctggcc
 4081 aacatggtga aaccccatct ctactaaaga aaaaaaaaaa ttagctgagc atggttgtag
 4141 atgcttgtaa tcccagctac ttgggatgcc gaggcgggag gattgcttga acccaagag
 4201 tggagtttgc agtgagctga gatttgcca cactgcactc cagcttgggt gagagtgaga
 4261 ctccactca aaaaaaagaga gaatccact ttcttgctgt tgtgatggtg
 4321 gtaagggaac gggcctggct ctggccctg atgcaggaac atggagctga tccaggacac
 4381 ctcgcccccg ccactggagt acgtgaaggg ggtcccgctc atcaagtact ttgcagaggc
 4441 actggggccc ctgcagagct tccaagcccg acctgatgac ctgctcatca acacctaccc
 4501 caagtctggt aagtgaggag ggccaccac cctctcccag gcggcagtc ccaccttggg
 4561 cagcaaggtc gtgcctcag cctgctcacc tcctatctcc ctccctctcc aggcaccacc
 4621 tgggtgagcc agatactgga catgatctac cagggcgccg acctagagaa gtgtaaccgg
 4681 gctcccatct acgtacgggt gcccttcctt gaggtcaatg atccagggga accctcaggt
 4741 gcatggctgg gtccctgggg taagggaagt ggaggaagac agggctgggg cttagctca
 4801 ccagaccttc cctgaccac tactcagggc tggagactct gaaagacaca cgcgccccac
 4861 ggctcatcaa gtcacacctg cccctggctc tgctccctca gactctgttg gatcagaagg
 4921 tcaaggtgag gccgggctca atgggtcaca cctgtcatcc cagtttgaga ctgaggagg
 4981 aggatccctt gaaggcgaga gatggagacc agcctgggca acattgctgt agagatgaca
 5041 tcccatctct acaaaaaataa aattaacaac ctggtatggt ggcatagact gttccagtt
 5101 acttaggagg ctacagggg aggactgttt atgcaaatag gaagctgcaa tgagccctga
 5161 tgatcctgct gctgcactcc agcctgggca acacagcaaa accatctcta cgaaaaaaaa
 5221 agttccact gactggcaag gaaagccagg aaggggggct caggtgccct ctacgccatg
 5281 tacctgttct tctggaagg cctcctcgt tctgccaggc tcatcacatc ttttttttt
 5341 ttgagacaga gtcttgcct gtcacctgg ctggagtga gtggcatgat ctacgctcac
 5401 tgcaacctcc gcctccccag ttcaagtgat tctcctgcct cagcctcctg agtagctggg
 5461 attacagggc tgtgctacca cccccggcta atttttgtat tctttttagt agagacgggg
 5521 tttcaccatg ttggtcaagt ggaatcctaaa ctcttgacct tgtgatctc ctgcctcgac
 5581 ctacaaaagt gctggaatta caggcgtgag ccaccgcgcc tggccctttt tttttttgag
 5641 acagtttcac tctgtttgcc gaggttagag cgcaatcgtg tgatctcgt tcaactgcaac
 5701 caccgcctcc tgggttcaag caattctcct gcttcagcct ccaaggagc tgggattaca
 5761 ggtacctgcc accacgccc gctaattttg tttttttagt agagatgggg tttcaccatg
 5821 ttggtcaggc tggctctgaa ctctgacct caggtgatct ggcacctgg cctcccaag
 5881 tgccgggatt agaggcatga gccaccacgc ccagccttca tcacatcttg agagaggaca
 5941 ctgtctgct cttgctctga tgagggtctg atgcaaagga tagtgagtct ctacagtga
 6001 cacttaagaa aggcagcatg tgggtgctca caggtcaggc ggaggagggg gagctgggtg
 6061 ggaccaggca tgcttgcct cagatcagga tatgatggca ttggtgcaga ttatattagt
 6121 atagaatatg gtctcaggaa ccaggcagga ctttggcttc cgagcagggt tcagatccca
 6181 gcttggccct acctgtgcag tgagatctca agcaagtcag cctctaagcc tcaggttcc
 6241 ctttggccag ttcaacagat gagctggcct ggggtgggct gtgtgggtgat ggtgctggg
 6301 ctgggtcttc tggcctgca ggtggtctat gttgcccga acccaaagga cgtggcggtc
 6361 tctactacc atttccaccg tatggaaaag gcgcaccctg agcctgggac ctgggacagc
 6421 ttcttgaaa agttcatggc tggagaaggt gggcttgact ggaggaagga ggggtggaag
 6481 ccgaggggtg gtggctataa cgtacagcaa cctgtgtcg gtgccccctg cccgcttctc
 6541 tadtgtctca cgggtcctgg taccagcacg tgcaggagtg gtgggagctg agccgcacc
 6601 accctgttct ctacctcttc tatgaagaca tgaaggagg gagaccgact gtgatgcttc

FIG. 7 CONT.

6661 ccccatgtg acacctggg gcaggcacct cacagggacc caccaaggcc acccagcccc
 6721 gtccctgggc ggctcccaca gcaagcccgg attcccccac ctacctccct ggcccaggcc
 6781 cccccactgc agccccacct ggcagcaggc tcggcacagc ttccatcttc tgcacctgag
 6841 tcagctgcat ggggtggccac ggatcagata cttagtccca ttgcttatcc tcaccaaagg
 6901 gtgtgccacc cagggccaca gtcaggaag aagaccatcc cggctctcac ccataggcgc
 6961 caagccctgt tcatgatggg atcacagggc agagatcaat tcattttact ccaagacta
 7021 gggccccagg ggttgaggct ctttgggggt tctaggggaa gtggccagat cccctctgag
 7081 gttagagagg gggaccggtt ttgttttgct ccactgagga gccctctgct gctcagacc
 7141 ccaaaaggga gattcaaaag atcctggagt ttgtggggcg ctccctgccg gaggagacca
 7201 tggacttcat ggttcagcac acgtcgttca aggagatgaa gaagaaccct atgaccaact
 7261 acaccaccgt cccccaggag ctcattggacc acagcatctc ccccttcatg aggaaagtg
 7321 ggtgctggcc agcacggggg tttggggcgg gtgggagcag cagctgcagc ctccccatag
 7381 gcacttgggg cctcccctgg gatgagactc cagctttgct cctgccttc ctccccagg
 7441 catggctggg gactggaaga ccaccttcac cgtggcgag aatgagcgt tcgatgcgga
 7501 ctatgaggag aagatggcag gctgcagcct cagcttccgc tctgagctgt gagaggggct
 7561 cctggagtca ctgcagaggg agtgctgcaa tctaccctga ccaatgggct caagaataaa
 7621 gtatgatttt tgagtcaggc acagtggctc atgtctgcaa tcccagcgat ttgggaggtt
 7681 gagctggtag gatcacaata ggccacgaat ttgagaccag cctggtaaaa tagtgagacc
 7741 tcatctctac aaagatgtaa aaaaattagc cacatgtgct ggcacttacc tgtagtccca
 7801 gctacttggg aagcagaggc tggaggatca tttcagccca ggaggttggt gatacagtga
 7861 gttatgacat gccattcac tacagcctgg atgacaagca agaccctccc tccaaagaaa
 7921 ataaagctca attaaaatga aatatgattt gtgttcatgt agagcctgta ttggaaagga
 7981 agagaaactc tgagctgaaa gagtgaatgc ccggtggggc cacatatggt cacctctccc
 8041 ccagccttca gctccccagg tcaccatata tggggagggg agaaggggtt ggagaagtaa
 8101 aaccaggag atgtgtggag gggggatgtc tgtttaatcc cagcacatcc tctgctgtcc
 8161 tgccccaaga tgggtggagga cgtcgagtcc gccgggcagc gtcacttttt cttgggctcc
 8221 ttagaagcta ccaggtacct ctgggccaca ctgagatgag gggagtagcc gcctgcatag
 8281 gaggtgtctt caaacaggat agtatagtcc ctctggggg ttgtgggggt aggtggccaa
 8341 ggaagggtag aggagcaagc ccccggggct ggttgtcaac tcactttgtt ggctggaatt
 8401 ggttgtaact tgaccacctc gggcaggatc ccactgctca tcccca

TCTTTCAGGAG

//